

FIGURE 1A



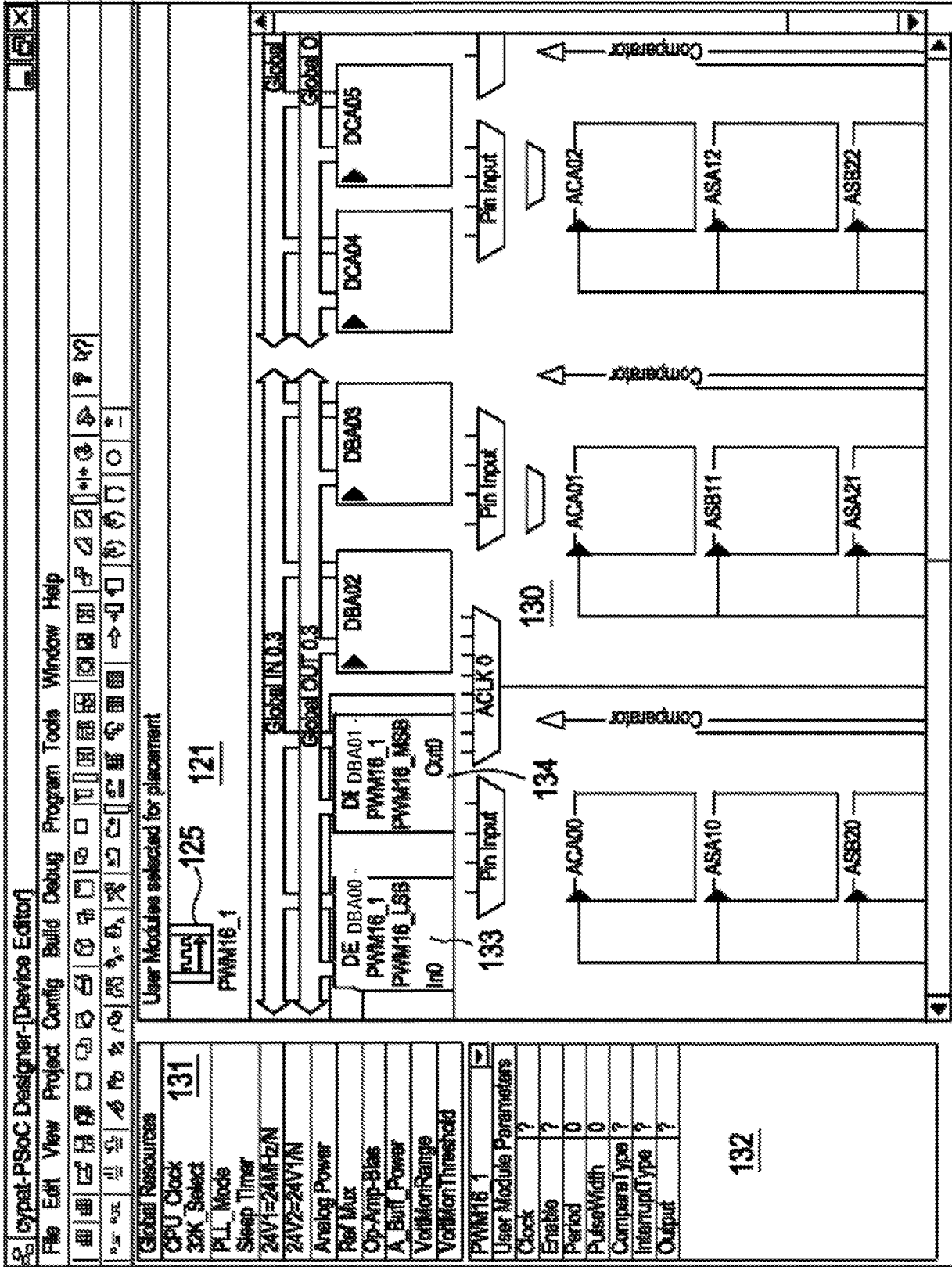


FIGURE 1C

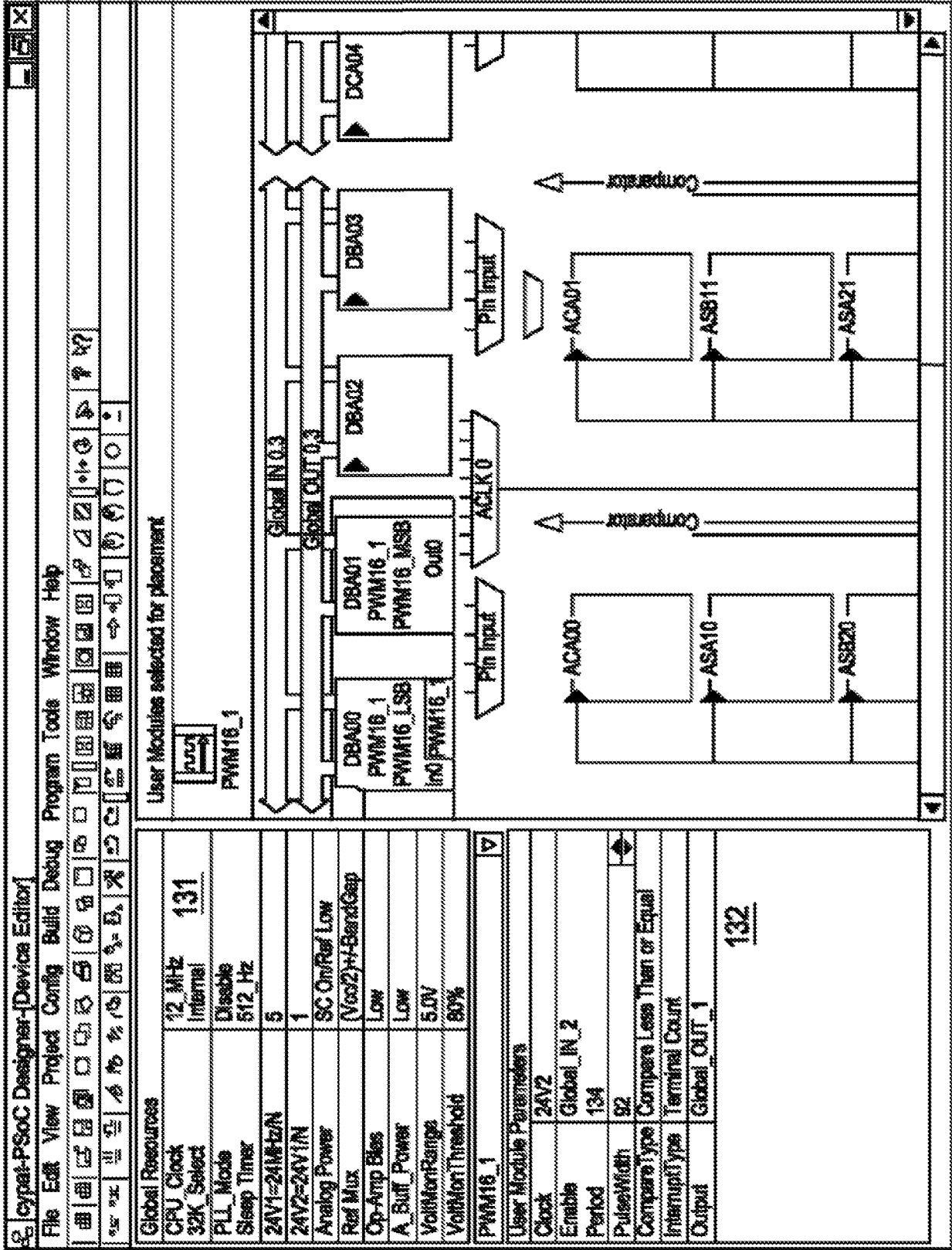


FIGURE 1D

-- REPLACEMENT SHEET --

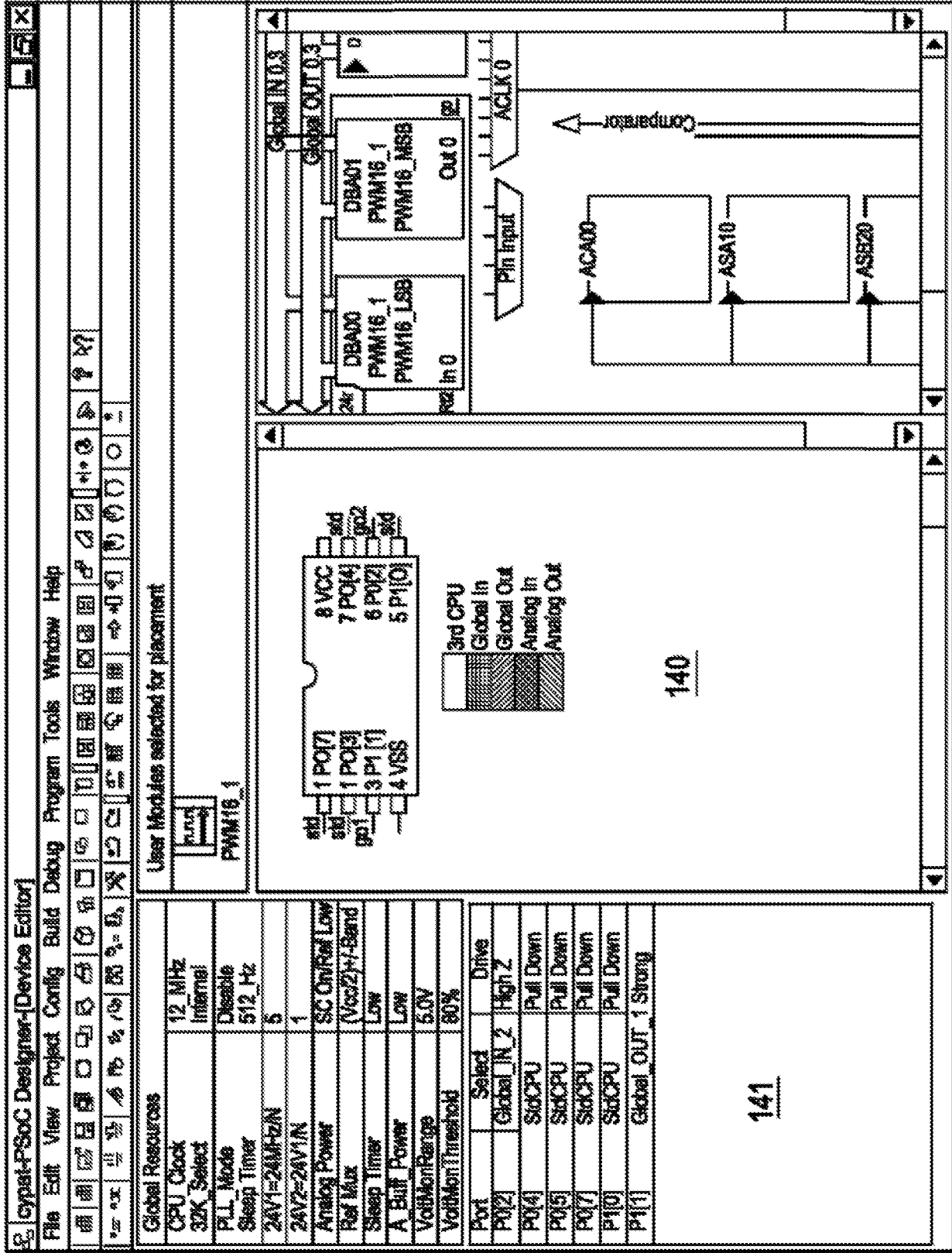
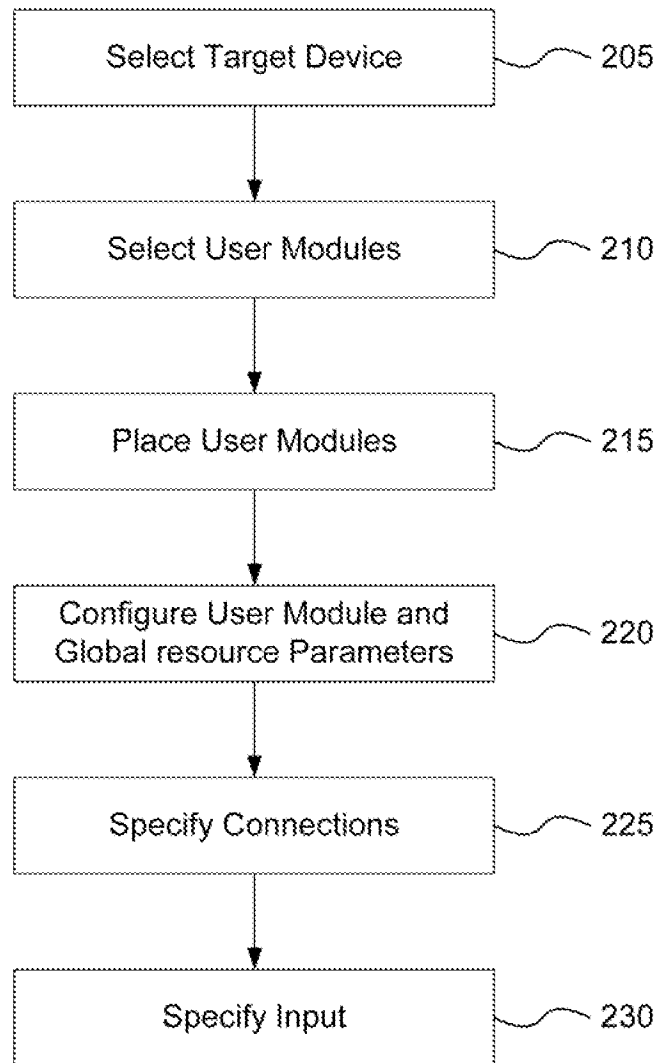
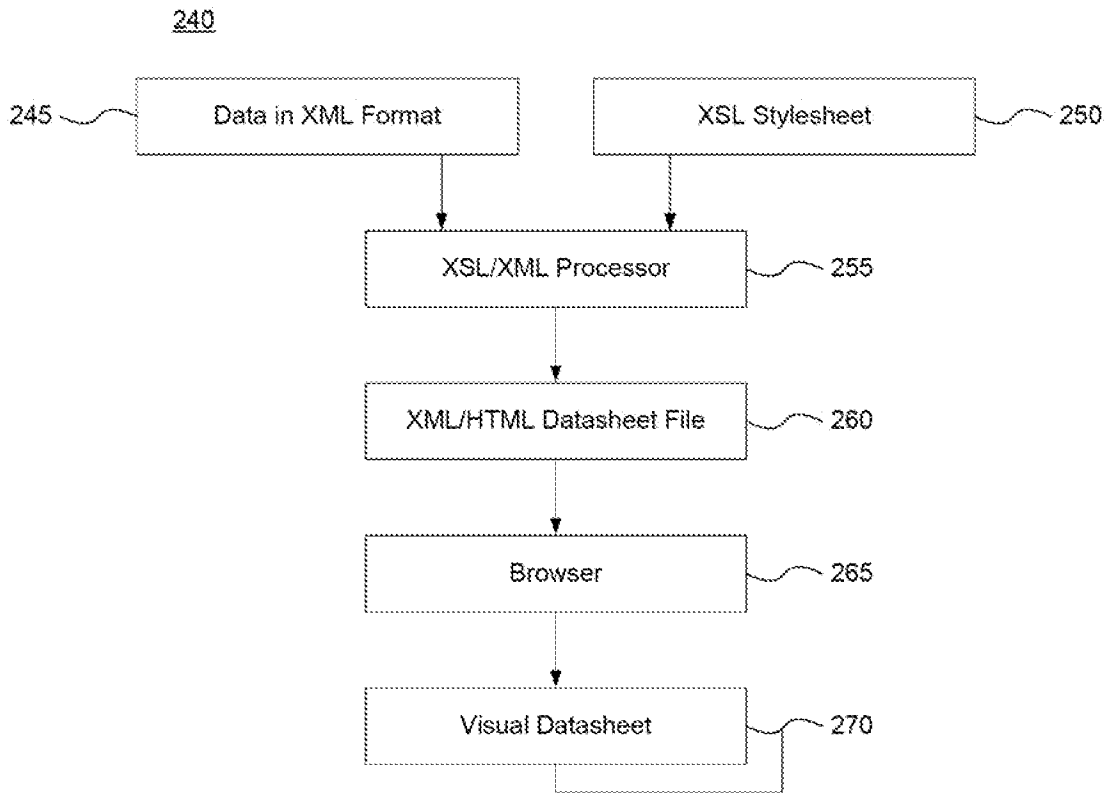


FIGURE 1E

200



**FIGURE 2A**



**FIGURE 2B**

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
<PSC_DEVICE_DE>
<PSC_CONFIG_LIST>
<PSC_CONFIG_NAME="patent&pln2" BASE_DEVICE="CY8C25122-API" SOURCE_GEN_TIME="1004277340" CONFIG_SAVE_TIME="104727340"
CONFIG_SAVE_DATE="FRI NOV 02 10:55:40 2001" VERSION="2.0">
<USER_MODULE_LIST>
  <USER_MODULE_NAME="PWM16" INSTANCE_NAME="PulseGenerator" VERSION="">
    <SHAPE_SHAPE_TYPE="BLOCKLIST" COLOR_INDEX="0">
      <BLOCK_LIST>
        <BLOCK_NAME="PWM16_LSB_TYPE="DIGITAL" LOCATION="0">
          <REGISTER_LIST>
            <REGISTER_NAME="CONTROL_0" ADDR="23" VALUE="0"/>
            <REGISTER_NAME="DATA_0" ADDR="20" VALUE="0"/>
            <REGISTER_NAME="DATA_1" ADDR="21" VALUE="86"/>
            <REGISTER_NAME="DATA_2" ADDR="22" VALUE="50"/>
            <REGISTER_NAME="DIG_BasicFunction" ADDR="120" VALUE="17"/>
            <REGISTER_NAME="DIG_Input" ADDR="121" VALUE="86"/>
            <REGISTER_NAME="DIG_Output" ADDR="23" VALUE="0"/>
          </REGISTER_LIST>
        </BLOCK>
        <INPUT_LIST/>
      </BLOCK>
      <BLOCK_NAME="PWM16_MSB" TYPE="DIGITAL" LOCATION="1">
        <REGISTER_LIST>
          <REGISTER_NAME="CONTROL_0" ADDR="27" VALUE="0"/>
          <REGISTER_NAME="DATA_0" ADDR="24" VALUE="0"/>
          <REGISTER_NAME="DATA_1" ADDR="25" VALUE="0"/>
          <REGISTER_NAME="DIG_BasicFunction" ADDR="124" VALUE="21"/>
          <REGISTER_NAME="DIG_Input" ADDR="125" VALUE="36"/>
          <REGISTER_NAME="DIG_Output" ADDR="126" VALUE="5"/>
        </REGISTER_LIST>
        <INPUT_LIST/>
      </BLOCK>
    </USER_MODULE_LIST>
  </BLOCK_LIST>
</PSC_CONFIG_LIST>
```

FIGURE 3A



Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
</BLOCK>
</BLOCK_LIST/>
<RESOURCE_LIST/>
</SHAPE>
<PARAMETER_LIST>
  <PARAMETER NAME="Clock" VALUE="24V2"/>
  <PARAMETER NAME="CompareType" VALUE="Compare Less Than Or Equal"/>
  <PARAMETER NAME="Enable" VALUE="Global IN 2"/>
  <PARAMETER NAME="InterruptType" VALUE="Terminal Count"/>
  <PARAMETER NAME="Period" VALUE="Global_OUT_1"/>
  <PARAMETER NAME="Pulse Width" VALUE="92"/>
</PARAMETER_LIST>
</USER_MODULE>
</USER_MODULE_LIST>
<DEVICE DATA>
  <GLOBAL_RESOURCE_LIST>
    <RESOURCE NAME="24V1=24MHz/N" VALUE="5"/>
    <RESOURCE NAME="24V2=24V1/N" VALUE="1"/>
    <RESOURCE NAME="2K_Select" VALUE="Internal"/>
    <RESOURCE NAME="A_Buff_Power" VALUE="Low"/>
    <RESOURCE NAME="Analog Power" VALUE="SC On/Ref Low"/>
    <RESOURCE NAME="CPU_Clock" VALUE="12_MHz"/>
    <RESOURCE NAME="Op-amp Bias" VALUE="Low"/>
    <RESOURCE NAME="PLL_Mode" VALUE="Disable"/>
    <RESOURCE NAME="Ref_Mux" VALUE="{Vcc/2+/-Bandgap"/>
    <RESOURCE NAME="Sleep_Timer" VALUE="512_Hz"/>
    <RESOURCE NAME="SwitchModePump" VALUE="OFF"/>
    <RESOURCE NAME="VoltMonRange" VALUE="5.0V"/>
    <RESOURCE NAME="VoltMonThreshold" VALUE="voltMonThreshold"/>
  </GLOBAL_RESOURCE_LIST>
  <RESERVED_RESOURCE_LIST>
    <RESOURCE NAME="" VALUE="" TYPE="" />
    <RESOURCE NAME="ASB11-ASB10" VALUE="" TYPE="DIRECT_INPUT"/>
    <RESOURCE NAME="ASB13-ASB12" VALUE="" TYPE="DIRECT_INPUT"/>
    <RESOURCE NAME="ASB20-ASB21" VALUE="" TYPE="DIRECT_INPUT"/>
    <RESOURCE NAME="ASB22-ASB23" VALUE="" TYPE="DIRECT_INPUT"/>
  </RESERVED_RESOURCE_LIST>

```

FIGURE 3B

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

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-- REPLACEMENT SHEET --

```
<RESOURCE NAME="AnalogClock_0_Select" VALUE="" TYPE="ANALOG_CLOCK_SELECT"/>
<RESOURCE NAME="AnalogClock_1_Select" VALUE="" TYPE="ANALOG_CLOCK_SELECT"/>
<RESOURCE NAME="AnalogColumn_Clock_0" VALUE="24V1" TYPE="ANALOG_COLUMNCLOCK_MUX"/>
<RESOURCE NAME="AnalogColumn_Clock_1" VALUE="24V1" TYPE="ANALOG_COLUMNCLOCK_MUX"/>
<RESOURCE NAME="AnalogColumn_Clock_2" VALUE="24V1" TYPE="ANALOG_COLUMNCLOCK_MUX"/>
<RESOURCE NAME="AnalogColumn_Clock_3" VALUE="24V1" TYPE="ANALOG_COLUMNCLOCK_MUX"/>
<RESOURCE NAME="AnalogColumn_InputMUX0" VALUE="Port_0_1" TYPE="COLUMN_INPUT"/>
<RESOURCE NAME="AnalogColumn_InputMUX1" VALUE="Port_0_4" TYPE="COLUMN_INPUT"/>
<RESOURCE NAME="AnalogColumn_InputMUX2" VALUE="Port_0_5" TYPE="COLUMN_INPUT"/>
<RESOURCE NAME="AnalogColumn_InputMUX3" VALUE="Port_0_0" TYPE="COLUMN_INPUT"/>
<RESOURCE NAME="AnalogColumn_InputSelect_1" VALUE="None" TYPE="AnalogColumn_InputMUX_1"
    TYPE="COLUMN_INPUT_SELECT"/>
<RESOURCE NAME="AnalogColumn_InputSelect_2" VALUE="AnalogColumn_InputMUX_2"
    TYPE="COLUMN_INPUT_SELECT"/>
<RESOURCE NAME="AnalogComparatorControl_0" VALUE="" TYPE="ANALOG_COMPARATOR_CONTROL"/>
<RESOURCE NAME="AnalogComparatorControl_1" VALUE="" TYPE="ANALOG_COMPARATOR_CONTROL"/>
<RESOURCE NAME="AnalogComparatorControl_2" VALUE="" TYPE="ANALOG_COMPARATOR_CONTROL"/>
<RESOURCE NAME="AnalogComparatorControl_3" VALUE="" TYPE="ANALOG_COMPARATOR_CONTROL"/>
<RESOURCE NAME="AnalogModulator_Col_0" VALUE="None" TYPE="ANALOG_MODULATOR"/>
<RESOURCE NAME="AnalogModulator_Col_0" VALUE="None" TYPE="ANALOG_MODULATOR"/>
<RESOURCE NAME="AnalogOutBuf_0" VALUE="OFF" TYPE="ANALOG_DRIVER"/>
<RESOURCE NAME="AnalogOutBuf_1" VALUE="OFF" TYPE="ANALOG_DRIVER"/>
<RESOURCE NAME="AnalogOutBuf_2" VALUE="OFF" TYPE="ANALOG_DRIVER"/>
<RESOURCE NAME="AnalogOutBuf_3" VALUE="OFF" TYPE="ANALOG_DRIVER"/>
<RESOURCE NAME="AnalogOutBus_0" VALUE="" TYPE="ANALOG_COLUMN_OUTPUT"/>
<RESOURCE NAME="AnalogOutBus_1" VALUE="" TYPE="ANALOG_COLUMN_OUTPUT"/>
<RESOURCE NAME="AnalogOutBus_2" VALUE="" TYPE="ANALOG_COLUMN_OUTPUT"/>
```

FIGURE 3C

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
<RESOURCE NAME="AnalogOutBus_3" VALUE="" TYPE="ANALOG_COLUMN_OUTPUT"/>  
<RESOURCE NAME="ComparatorBus_0" VALUE="" TYPE="ANALOG_COMPARATOR_OUTPUT"/>  
<RESOURCE NAME="ComparatorBus_1" VALUE="" TYPE="ANALOG_COMPARATOR_OUTPUT"/>  
<RESOURCE NAME="ComparatorBus_2" VALUE="" TYPE="ANALOG_COMPARATOR_OUTPUT"/>  
<RESOURCE NAME="ComparatorBus_3" VALUE="" TYPE="ANALOG_COMPARATOR_OUTPUT"/>  
<RESOURCE NAME="ComparatorClock" VALUE="" TYPE="COMPARATOR_CLOCK"/>  
<RESOURCE NAME="ComparatorGate_0" VALUE="" TYPE="COMPARATOR_ENABLE"/>  
<RESOURCE NAME="ComparatorGate_1" VALUE="" TYPE="COMPARATOR_ENABLE"/>  
<RESOURCE NAME="ComparatorGate_2" VALUE="" TYPE="COMPARATOR_ENABLE"/>  
<RESOURCE NAME="ComparatorGate_3" VALUE="" TYPE="COMPARATOR_ENABLE"/>  
<RESOURCE NAME="DBA00-DBA01" VALUE="" TYPE="DIRECT_INPUT"/>  
<RESOURCE NAME="DBA01-DBA02" VALUE="" TYPE="DIRECT_INPUT"/>  
<RESOURCE NAME="DBA02-DBA03" VALUE="" TYPE="DIRECT_INPUT"/>  
<RESOURCE NAME="DBA03-DBA04" VALUE="" TYPE="DIRECT_INPUT"/>  
<RESOURCE NAME="DBA04-DBA05" VALUE="" TYPE="DIRECT_INPUT"/>  
<RESOURCE NAME="DBA05-DBA06" VALUE="" TYPE="DIRECT_INPUT"/>  
<RESOURCE NAME="DBA06-DBA07" VALUE="" TYPE="DIRECT_INPUT"/>  
<RESOURCE NAME="Decimator" VALUE="" TYPE="DECIMATOR"/>  
<RESOURCE NAME="Global_IN_0" VALUE="" TYPE="GLOBAL_BUS"/>  
<RESOURCE NAME="Global_IN_1" VALUE="" TYPE="GLOBAL_BUS"/>  
<RESOURCE NAME="Global_IN_2" VALUE="" TYPE="GLOBAL_BUS"/>  
<RESOURCE NAME="Global_IN_3" VALUE="" TYPE="GLOBAL_BUS"/>  
<RESOURCE NAME="Global_IN_4" VALUE="" TYPE="GLOBAL_BUS"/>  
<RESOURCE NAME="Global_IN_5" VALUE="" TYPE="GLOBAL_BUS"/>  
<RESOURCE NAME="Global_IN_6" VALUE="" TYPE="GLOBAL_BUS"/>
```

FIGURE 3D

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
<RESOURCE NAME="Global_IN_7" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_0" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_1" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_2" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_3" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_4" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_5" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_6" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Global_OUT_7" VALUE="" TYPE="GLOBAL_BOS"/>
<RESOURCE NAME="Port_0_2" VALUE="Global_IN_2" TYPE="PIN"/>
<RESOURCE NAME="Port_0_3_Drive" VALUE="High_2" TYPE="PIN"/>
<RESOURCE NAME="Port_0_4" VALUE="StdCFG" TYPE="PIN"/>
<RESOURCE NAME="Port_0_4_Drive" VALUE="Full_Down" TYPE="PIN"/>
<RESOURCE NAME="Port_0_5" VALUE="StdCFG" TYPE="PIN"/>
<RESOURCE NAME="Port_0_5_Drive" VALUE="Pull_Down" TYPE="PIN"/>
<RESOURCE NAME="Port_0_7" VALUE="StdCFG" TYPE="PIN"/>
<RESOURCE NAME="Port_0_7_Drive" VALUE="Pull_Down" TYPE="PIN"/>
<RESOURCE NAME="Port_1_0" VALUE="StdCFG" TYPE="PIN"/>
<RESOURCE NAME="Port_1_0_Drive" VALUE="Full_Down" TYPE="PIN"/>
<RESOURCE NAME="Port_1_1" VALUE="Global_OUT_1 (Strong)" TYPE="PIN"/>
<RESOURCE NAME="Port_1_1_Drive" VALUE="Strong" TYPE="PIN"/>
<RESOURCE NAME="VT" VALUE="" TYPE="TEMPERATURE_VOLTAGE"/>
</RESERVED_RESOURCE_LIST>
<GLOBAL_REGISTER_LIST>
<REGISTER NAME="AnalogClockSelect" VALUE="0" ADDR="161"/>
<REGISTER NAME="AnalogColumnClockSelect" VALUE="0" ADDR="161"/>
```

FIGURE 3E

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

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-- REPLACEMENT SHEET --

```
<REGISTER NAME="AnalogColumnInputSelect" VALUE="28" ADDR="60"/>  
<REGISTER NAME="AnalogIOControl" VALUE="0" ADDR="162"/>  
<REGISTER NAME="AnalogModulatorControl" VALUE="0" ADDR="163"/>  
<REGISTER NAME="AnalogReferenceControl" VALUE="5" ADDR="63"/>  
<REGISTER NAME="AnalogSyncControl" VALUE="0" ADDR="65"/>  
<REGISTER NAME="DecimatorControl" VALUE="0" ADDR="e6"/>  
<REGISTER NAME="OscillatorControl_1" VALUE="40" ADDR="1e1"/>  
<REGISTER NAME="Port_0_Bypass" VALUE="4" ADDR="2"/>  
<REGISTER NAME="Port_0_DriveMode_0" VALUE="0" ADDR="100"/>  
<REGISTER NAME="Port_0_DriveMode_1" VALUE="4" ADDR="101"/>  
<REGISTER NAME="Port_1_Bypass" VALUE="2" ADDR="6"/>  
<REGISTER NAME="Port_1_DriveMode_0" VALUE="2" ADDR="104"/>  
<REGISTER NAME="Port_1_DriveMode_1" VALUE="0" ADDR="105"/>  
<REGISTER NAME="Port_2_Bypass" VALUE="0" ADDR="a"/>  
<REGISTER NAME="Port_2_DriveMode_0" VALUE="0" ADDR="108"/>  
<REGISTER NAME="Port_2_DriveMode_1" VALUE="0" ADDR="109"/>  
<REGISTER NAME="Port_3_Bypass" VALUE="0" ADDR="e"/>  
<REGISTER NAME="Port_3_DriveMode_0" VALUE="0" ADDR="10c"/>  
<REGISTER NAME="Port_3_DriveMode_1" VALUE="0" ADDR="10d"/>  
<REGISTER NAME="Port_4_Bypass" VALUE="0" ADDR="12"/>  
<REGISTER NAME="Port_4_DriveMode_0" VALUE="0" ADDR="110"/>  
<REGISTER NAME="Port_4_DriveMode_1" VALUE="0" ADDR="111"/>  
<REGISTER NAME="Port_5_Bypass" VALUE="0" ADDR="16"/>  
<REGISTER NAME="Port_5_DriveMode_0" VALUE="0" ADDR="114"/>  
<REGISTER NAME="Port_5_DriveMode_1" VALUE="0" ADDR="115"/>
```

FIGURE 3F

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
<REGISTER NAME="VoltageMonitorControl" VALUE="84" ADDR="1e3" />
</GLOBAL_REGISTER_LIST>
<PIN_DESC LIST>
  <PIN_DESC PIN_NUMBER="1" PIN_LABEL="P0[7]" PIN_SELECT="StdCPU" PIN_DRIVE="Full Down" />
  <PIN_DESC PIN_NUMBER="2" PIN_LABEL="P0[5]" PIN_SELECT="StdCPU" PIN_DRIVE="Pull
  Down" />
  <PIN_DESC PIN_NUMBER="3" PIN_LABEL="P1[1]" PIN_SELECT="Global_COT_1 (Strong)"
  PIN_DRIVE="Strong" />
  <PIN_DESC PIN_NUMBER="4" PIN_LABEL="VSS" PIN_SELECT="" PIN_DRIVE="" />
  <PIN_DESC PIN_NUMBER="5" PIN_LABEL="P1[0]" PIN_SELECT="StdCPU" PIN_DRIVE="Pull
  Down" />
  <PIN_DESC PIN_NUMBER="6" PIN_LABEL="P0[2]" PIN_SELECT="Global_IN_2" PIN_DRIVE="High
  Z" />
  <PIN_DESC PIN_NUMBER="7" PIN_LABEL="P0[4]" PIN_SELECT="StdCPU" PIN_DRIVE="Pull
  Down" />
  <PIN_DESC PIN_NUMBER="8" PIN_LABEL="VCC" PIN_SELECT="" PIN_DRIVE="" />
```

FIGURE 3G

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
<?xml version="1.0"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/W3-XSL1"
  <xsl:template match="/">
<HTML><HEAD>
  <STYLE>
    DIV.page { page-break-before: always }
  </STYLE>
</HEAD>
<BODY>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
  <TR><TD>
    <DIV STYLE="media=print; font-family:Tahoma,Arial,sans-serif; font-size:12pt; color:blue; text-align:center; letter-spacing:6px; font-weight:bold">
      PSoC Designer Configuration Sheet
    </DIV>
  </TD></TR>
  <TR>
    <TD><IMG SRC="cyp.jpg" ALIGN="LEFT" WIDTH="250"/></TD>
  </TR>
</TABLE>
  <TD><TABLE BORDER="0" CELLSPACING="0">
    <xsl:for-each select="//PSoC_CONFIG_LIST/PSoC_CONFIG">
      <TR><TD>
        <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif; font-size:10pt; color:black; text-align:center; letter-spacing:6px; font-weight:bold">
          <xsl:apply-templates select="@NAME"/>
        </DIV>
      </TR></TD>
      <TR>
        <TD><xsl:apply-templates select="@BASE_DEVICE"/></TD>
      </TR>
    </TR><TD>
      <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif; font-size:10pt; color:black; text-align:center; letter-spacing:6px; font-weight:bold">
        <xsl:value-of select="@CONFIG_SAVE_DATE"/>
      </DIV>
    </TD>
  </TR>
</TABLE>
</BODY>
</HTML>
```

FIGURE 4A

Cypress Semiconductor Corporation  
 System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```

</TD></TR>
</xsl:for-each>
</TABLE></TD>
</TR>
</TABLE>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
<TR ALIGN="CENTER">
<td><xsl:for-each select="//USER_MODULES_LIST/USER_MODULE">
<TD><IMG>
<xsl:attribute name;"src">
<xsl:value-of select="@NAME" />_icon.gif
</xsl:attribute>
</IMG></TD>
</xsl:for-each>
</TR>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
<DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif; font-size:10pt; color:blue; text-align:center;
letter-spacing:6ps; font-weight:bold">
Signal Pin Table
</DIV>
<TR><TD WIDTH="320">
<TABLE BORDER="1" CELLSPACING="0" ALIGN="CENTER">
<TR ALIGN="CENTER">
<TD>Pin#</TD>
<TD>Label</TD>
<TD>Select</TD>
<TD>Drive</TD>
</TR>
</TR>
<xsl:for-each select="PIN_DESC_LIST/PIN_DESC"
<TR ALIGN="CENTER">
<TD><xsl:apply-templates select="@PIN_NUMBER"/></TD>
<TD><xsl:apply-templates select="@PIN_LABEL"/></TD>
<TD><xsl:apply-templates select="@PIN_SELECT"/></TD>
<TD><xsl:apply-templates select="@PIN_DRIVE"/></TD>
</TR>
</xsl:for-each>
</TABLE>
<TABLE BORDER="0" CELLSPACING="0">
<TR>
<TD><IMG SRC="part.jpg"/></TD>
</TR>
    
```

FIGURE 4B





Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
</TD></TR>
</TABLE>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
<TR><TD><IMG>
  <xsl:attribute name="src">
    <xsl:value-of select="@NAME" />_block.gif
  </xsl:attribute>
</IMG></TD></TR>
</TABLE>
</P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
<DIV STYLE="media=print; font-family:Tahoma,Arial,sans-serif; font-size:12pt; color:blue; text-
  align:center; letter-spacing:6px; font-weight:bold">
  Parameters
</DIV>
<TR STYLE="media=print; font-family:Tahoma,Arial,sans-serif; font-size:10pt; color:red; text-align:center;
  letter-spacing:8px; font-weight:bold">
<TD>Parameters</TD>
<TD>Value</TD>
</TR>
<xsl:for-each select="PARAMETER_LIST/PARAMETER">
<TR>
  <TD><xsl:apply-templates select="@NAME" /></TD>
  <TD><xsl:apply-templates select="@VALUE" /></TD>
</TR>
</xsl:for-each>
</TABLE>
<BR />
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
<DIV STYLE="media=print; font-family:Tahoma,Arial,sans-serif; font-size:12pt; color:blue; text-
  align:center; letter-spacing:6px; font-weight:bold">
  Blocks
</DIV>
<xsl:for-each select="SHAPE">
  <xsl:for-each select="BLOCK_LIST/BLOCK">
    <TR/><TR/><TR/>
    <TR STYLE="media=print; font-family:Tahoma,Arial,sans-serif; font-size:10pt; color:red; text-
      align:center; letter-spacing:8px; font-weight:bold">
    <TD>
```

FIGURE 4D

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

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-- REPLACEMENT SHEET --

```
<DIV STYLE="media=print; font-family:Tahoma,Arial,sans-serif; font-size:12pt;
color:blue; text-align:center; letter-spacing:6px; font-weight:bold">
  Block
</DIV>
<TD>Type</TD>
<TD>Location</TD>
</TR>
<TR>
  <TD><xsl:apply-templates select="@NAME"/></TD>
  <TD><xsl:apply-templates select="@ADDR"/></TD>
  <TD><xsl:apply-templates select="@VALUE"/></TD>
</TR>
<TR STYLE="media=print; font-family:Tahoma,Arial,sans-serif; font-size:10pt; color:red; text-
align:center; letter-spacing:8px; font-weight:bold">
  <TD>Registers</TD>
  <TD>Address</TD>
  <TD>Value</TD>
</TR>
<xsl:for-each select="--REGISTER_LIST/REGISTER">
  <TR>
    <TD><xsl:apply-templates select="@NAME"/></TD>
    <TD><xsl:apply-templates select="@ADDR"/></TD>
    <TD><xsl:apply-templates select="@VALUE"/></TD>
  </TR>
</xsl:for-each>
<TR HEIGHT="10"/>
</xsl:for-each>
</TABLE>
</xsl:for-each>
<DIV CLASS="page">
  <BR/><BR/><BR/>
</DIV>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
  <TR><TD>
    <TABLE BORDER="0" CELLSPACING="0">
      <TR><TD><IMG SRC="cyp.jpg" ALIGN="LEFT" WIDTH="350"/></TD></TR>
    </TABLE>
  </TD>
  <TD>
    <TABLE BORDER="0" CELLSPACING="0" ALIGN="CENTER">
      <TR><TD>
        <DIV STYLE="media=print; font-family:Tahoma,Arial,sans-serif;
```

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

Cypress Docket No.: CD01174 Sheet 20 of 28

-- REPLACEMENT SHEET --

```
font-size:16pt; color:blue; text-align:center; letter-spacing:6px; font-weight:bold">
Appendix
</DIV>
</TD></TR>
</TABLE>
</TD></TR>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
<DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif; font-size:12pt; color:blue; text-align:center;
letter-spacing:6px; font-weight:bold">
Pin
</DIV>
<TR>
<TD>Name</TD>
<TD>Value</TD>
</TR>
<TR>
<xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
<xsl:if match="RESOURCE[@TYPE='PIN']">
<TR>
<TD><xsl:apply-templates select="@NAME"/></TD>
<TD><xsl:apply-templates select="@VALUE"/></TD>
</TR>
</xsl:if>
</xsl:for-each>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
<DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif; font-size:12pt; color:blue; text-align:center;
letter-spacing:6px; font-weight:bold">
Analog Clocks
</DIV>
<TR><TD>Name</TD>
<TD>Value</TD>
</TR>
<TR>
<xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
<xsl:if match="RESOURCE[@TYPE='ANALOG_CLOCK_SELECT']">
<TR>
<TD><xsl:apply-templates select="@NAME"/></TD>
<TD><xsl:apply-templates select="@VALUE"/></TD>
</TR>
</xsl:if>
</xsl:for-each>
<xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
<xsl:if match="RESOURCE[@TYPE='ANALOG_CLOCK_MUX']">
<xsl:if match="RESOURCE[@TYPE='ANALOG_COLUMN_CLOCK_MUX']">
```

FIGURE 4F

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

Cypress Docket No.: CD01174 Sheet 21 of 28

-- REPLACEMENT SHEET --

```
<TR>
  <TD><xsl:apply-templates select="@NAME" /></TD>
  <TD><xsl:apply-templates select="@VALUE" /></TD>
</TR>
</xsl:if>
</xsl:for-each>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
  <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif; font-size:12pt; color:blue; text-align:center;
  letter-spacing:6px; font-weight:bold">
    Analog Buffer Output
  </DIV>
  <TR>
    <TD>Name</TD>
    <TD>Value</TD>
  </TR>
  <xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
    <xsl:if match="RESOURCE[@TYPE='ANALOG_DRIVER']">
      <TR>
        <TD><xsl:apply-templates select="@NAME" /></TD>
        <TD><xsl:apply-templates select="@VALUE" /></TD>
      </TR>
    </xsl:if>
  </xsl:for-each>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
```

FIGURE 4G

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

Cypress Docket No.: CD01174 Sheet 22 of 28

-- REPLACEMENT SHEET --

```
<DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;font-size:12pt;color:blue;text-align:center;
letter-spacing:6px;font-weight:bold">
Global Register Values
</DIV>
<TR>
<TD>Name</TD>
<TD>Address</TD>
<TD>Value</TD>
</TR>
<XSL:FOR-EACH SELECT="//RESERVED_RESOURCE_LIST/RESOURCE">
<TR>
<TD><xsl:apply-templates select="@NAME"/></TD>
<TD><xsl:apply-templates select="@ADDR"/></TD>
<TD><xsl:apply-templates select="@VALUE"/></TD>
</TR>
</XSL:FOR-EACH>
</TABLE>
</BODY>
<XSL:TEMPLATE MATCH="@NAME">
<E><xsl:value-of/></E>
</XSL:TEMPLATE>
<XSL:TEMPLATE MATCH="@VALUE">
<xsl:value-of/>
</XSL:TEMPLATE>
<XSL:TEMPLATE MATCH="@INSTANCE_NAME">
<E><xsl:value-of/></E>
</XSL:TEMPLATE>
<XSL:TEMPLATE MATCH="@SOURCE_GEN_TIME">
<xsl:value-of/>
</XSL:TEMPLATE>
<XSL:TEMPLATE MATCH="@EASE_DEVICE">
<DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;font-size:12pt;color:blue;text-align:center;
letter-spacing:6px;font-weight:bold"><xsl:value-of/>
</DIV>
</XSL:TEMPLATE>
<XSL:TEMPLATE MATCH="@TYPE">
<xsl:value-of/>
</XSL:TEMPLATE>
```

Cypress Semiconductor Corporation  
System and Method for Dynamically Generating a Configuration Datasheet

Inventors: Douglas H. Anderson et al.

Cypress Docket No.: CD01174 Sheet 23 of 28

-- REPLACEMENT SHEET --

```
<xsl:template match="@LOCATION">
  <xsl:value-of/>
</xsl:template>

<xsl:template match="REGISTE_ NAME">
  <B><xsl:value-of/></B>
</xsl:template>

<xsl:template match="@REGISTER_ VALUE">
  <xsl:value-of/>
</xsl:template>

<xsl:template match="@ADDR">
  <xsl:value-of/>
</xsl:template>

<xsl:template match="@PIN_ NUMBER">
  <xsl:value-of/>
</xsl:template>


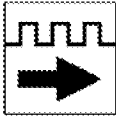
<xsl:template match="@PIN_ LABEL">
  <xsl:value-of/>
</xsl:template>

<xsl:template match="@PIN_ SELECT">
  <xsl:value-of/>
</xsl:template>

<xsl:template match="@PIN_ DRIVE">
  <xsl:value-of/>
</xsl:template>

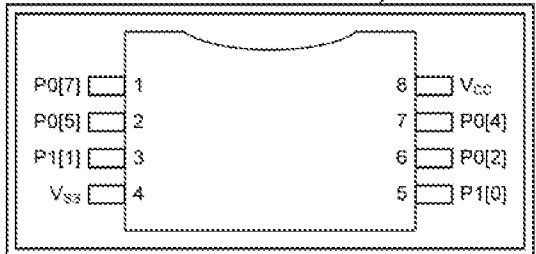
</xsl:stylesheet>
```

FIGURE 4I

|  |   |
|--|---|
| PSoC Designer Configuration Sheet<br> <b>CYPRESS MICROSYSTEMS</b> | Patent 8 pin 2<br>CY 8 C 2 5 1 2 2 - 2 4 P I<br>Fri Nov 02 10:55:40<br>2001 |
|   |   |

Signal Pin Table 503

| Pin# | Label | Select                | Drive     |
|------|-------|-----------------------|-----------|
| 1    | P0[7] | StdCPU                | Pull Down |
| 2    | P0[5] | StdCPU                | Pull Down |
| 3    | P1[1] | Global_OUT_1 (Strong) | Strong    |
| 4    | VSS   |                       |           |
| 5    | P1[0] | StdCPU                | Pull Down |
| 6    | P0[2] | Global_IN_2           | High Z    |
| 7    | P0[4] | StdCPU                | Pull Down |
| 8    | VDD   |                       |           |

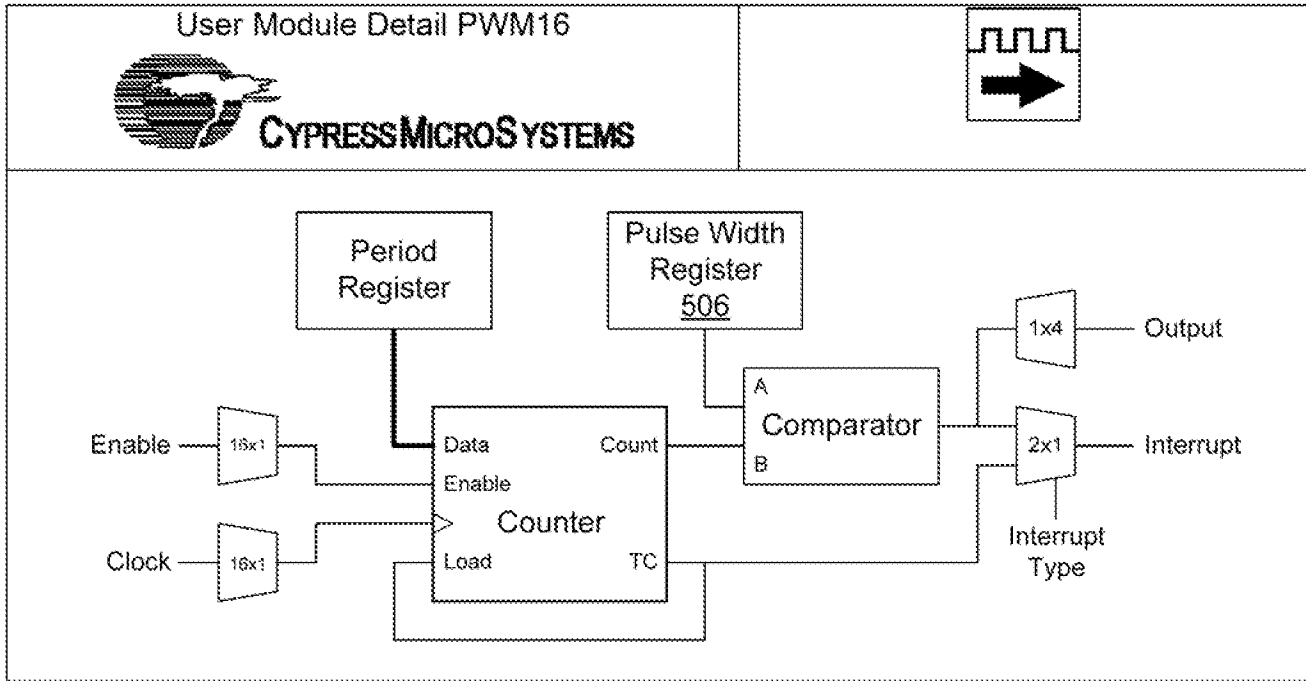


Selected Global Parameters 505

| Name             | Value            |
|------------------|------------------|
| 24V1=24MHz/N     | 5                |
| 24V2=24V1/N      | 1                |
| 32K_Select       | Internal         |
| A_Buff_Power     | Low              |
| Analog Power     | SC On/Ref Low    |
| CPU_Clock        | 12_MHz           |
| Op-Amp Bias      | Low              |
| PLL_Mode         | Disable          |
| Ref Mux          | Vcc/2)+/-Bandgap |
| Sleep_Timer      | 512_Hz           |
| SwitchModePump   | OFF              |
| VoltMonRange     | 5.0V             |
| VoltMonThreshold | 80%              |

**FIGURE 5A**





Parameters 507

| Parameters    | Value                      |
|---------------|----------------------------|
| Clock         | 24V2                       |
| CompareType   | Compare Less Than Or Equal |
| Enable        | Global_IN_2                |
| InterruptType | Terminal Count             |
| Output        | Global_OUT_1               |
| Period        | 134                        |
| PulseWidth    | 92                         |

**FIGURE 5B**

**-- REPLACEMENT SHEET --**

Blocks 508

| Block             | Type    | Location |
|-------------------|---------|----------|
| PWM16_LSB         | Digital | 0        |
| Registers         | Address | Value    |
| CONTROL_0         | 23      | 0        |
| DATA_0            | 20      | 0        |
| DATA_1            | 21      | 86       |
| DATA_2            | 22      | 5c       |
| DIG_BasicFunction | 120     | 1        |
| DIG_Input         | 121     | E6       |
| DIG_Output        | 122     | 0        |
| Block             | Type    | Location |
| PWM16_MSB         | Digital | 1        |
| Registers         | Address | Value    |
| CONTROL_0         | 27      | 0        |
| DATA_0            | 24      | 0        |
| DATA_1            | 25      | 0        |
| DATA_2            | 26      | 0        |
| DIG_BasicFunction | 124     | 21       |
| DIG_Input         | 125     | 36       |
| DIG_Output        | 126     | 5        |

**FIGURE 5C**

|  |          |
|--|----------|
|  | Appendix |
|--|----------|

Pin 509

| Name           | Value                 |
|----------------|-----------------------|
| Port_0_2       | Global_IN_2           |
| Port_0_2_Drive | High_Z                |
| Port_0_4       | StdCPU                |
| Port_0_4_Drive | Pull_Down             |
| Port_0_5       | StdCPU                |
| Port_0_5_Drive | Pull_Down             |
| Port_0_7       | StdCPU                |
| Port_0_7_Drive | Pull_Down             |
| Port_1_0       | StdCPU                |
| Port_1_0_Drive | Pull_Down             |
| Port_1_1       | Global_OUT_1 (Strong) |
| Port_1_1_Drive | Strong                |

Analog Clocks 510

| Name                 | Value |
|----------------------|-------|
| AnalogClock_0_Select |       |
| AnalogClock_1_Select |       |
| AnalogColumn_Clock_0 | 24VI  |
| AnalogColumn_Clock_1 | 24VI  |
| AnalogColumn_Clock_2 | 24VI  |
| AnalogColumn_Clock_3 | 24VI  |

Analog Input MUX 511

| Name                    | Value    |
|-------------------------|----------|
| AnalogColumn_InputMUX_0 | Port_0_1 |
| AnalogColumn_InputMUX_1 | Port_0_4 |
| AnalogColumn_InputMUX_2 | Port_0_5 |
| AnalogColumn_InputMUX_3 | Port_0_0 |

**FIGURE 5D**

**-- REPLACEMENT SHEET --**  
**Analog Buffer Output 512**

| Name           | Value |
|----------------|-------|
| AnalogOutBuf_0 | OFF   |
| AnalogOutBuf_1 | OFF   |
| AnalogOutBuf_2 | OFF   |
| AnalogOutBuf_3 | OFF   |

**Global Register Values 514**

| Name                    | Address | Value |
|-------------------------|---------|-------|
| AnalogClockSelect       | 161     | 0     |
| AnalogColumnClockSelect | 160     | 0     |
| AnalogColumnInputSelect | 60      | 28    |
| AnalogIOControl         | 162     | 0     |
| AnalogModulatorControl  | 163     | 0     |
| AnalogReferenceControl  | 63      | 5     |
| AnalogSyncControl       | 65      | 0     |
| DecimatorControl        | 36      | 0     |
| OscillatorControl_1     | 1e1     | 40    |
| Port_0 Bypass           | 2       | 4     |
| Port_0 DriveMode_0      | 100     | 0     |
| Port_0 DriveMode_1      | 101     | 4     |
| Port_1 Bypass           | 6       | 2     |
| Port_1 DriveMode_0      | 104     | 2     |
| Port_1 DriveMode_1      | 105     | 0     |
| Port_2 Bypass           | A       | 0     |
| Port_2 DriveMode_0      | 108     | 0     |
| Port_2 DriveMode_1      | 109     | 0     |
| Port_3 Bypass           | E       | 0     |
| Port_3 DriveMode_0      | 10c     | 0     |
| Port_3 DriveMode_1      | 10d     | 0     |
| Port_4 Bypass           | 12      | 0     |
| Port_4 DriveMode_0      | 110     | 0     |
| Port_4 DriveMode_1      | 111     | 0     |
| Port_5 Bypass           | 16      | 0     |
| Port_5 DriveMode_0      | 114     | 0     |
| Port_5 DriveMode_1      | 115     | 0     |
| VoltageMonitorControl   | 1e3     | 84    |

**FIGURE 5D**